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**SUMMARY OF
WEAPONS PHASING GROUP MEETING AT
HEADQUARTERS USAF
6 AUGUST 1957**

The Weapons Phasing Group Meeting for "Project Dragon Lady" was held at Headquarters, United States Air Force, Washington D.C., on 6 August 1957. The personnel listed below attended:

<u>NAME</u>	<u>RANK</u>	<u>ORGANIZATION</u>
Keeling, G. F.	Colonel	Hq USAF, AFMDC
Cabas, Victor N.	Colonel	Hq USAF, AFOOP
Nole, J. D.	Colonel	4028th SRS
Reilly, B. J.	Colonel	WRAMA
Brewer, S. W.	Lt. Col.	Hq AMC, MCPHBB
Herrington, R. M.	Lt. Col.	Hq ARDC, Det. #1, RDZSB
DeLonga, P. R.	Lt. Col.	Hq USAF, AFMSSAC
Geary, L. P.	Lt. Col.	Hq USAF, AFCIG-5
Newbern, R. G.	Lt. Col.	Hq USAF, AFOOP-OC-12
Williams, D. M.	Lt. Col.	Hq SAC, DOPLR
Nesbitt, J. W.	Lt. Col.	Hq SAC, DOPLR
Scherer, John J.	Lt. Col.	Hq SAC, DORQO
Cody, H. E.	Lt. Col.	Hq 4080th SRW
Horley, Ernest L.	Lt. Col.	Hq 4080th SRW, DML
Honeywell, R. L.	Major	Hq USAF, AFMSSAC
Andre, Alfred C.	Major	Hq SAC, DM2E
Klemme, Meade	Major	Hq SAC, DM4A
Spindler, Walter E.	Major	Hq SAC, DOPLR
Weller, R. K.	Major	Hq SAC, DOPLR
Wilborn, William T.	Major	Hq SAC, DORQA
Breeze, R. C.	Major	Hq 2nd AF, DM3B
Clemmer, W. W.	Major	Hq 2nd AF, DM4F1
Hightower, William H.	Captain	Hq SAC, DM6BE
Irvine, Ralph H.	Captain	Hq SAC, DM6BE
Thomas, Walter H.	Captain	Hq SAC, DM3A4
Musgjerd, C. H.	Captain	Hq 4080th SRW, DMS
Hall, Bruce M.	1st Lt.	Hq AMC, MCPHBB
McDonald, James B.	Civilian	Hq AMC, MCPHBB
Denard, William N. [REDACTED]	Civilian	WRAMA
Harper, E. A.	Civilian	Lockheed
Condon, J. F.	Lt. Col.	Hq AFFTC
Thielen, W. C.	Captain	Hq SAC, DIMQ
		Hq SAC, DIMQ

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I. INTRODUCTION

a. Opening remarks.

The meeting was opened by the chairman, Lt. Col. S. W. Brewer, with an introduction of the personnel attending. The purpose of the Weapons Phasing Group was again emphasized and the intention of holding the meetings on an as-necessary basis rather than at set intervals of time.

b. Report by SAC using organizations.

Col. J. D. Nole, commander of the 4028th Strategic Reconnaissance Squadron, presented a status report of the SAC operation at Laughlin Air Force Base, Texas. The move into this base was made in the period from 10-13 June, and from that time until 31 July a total of 453:55 hours flying time was accumulated. The in-commission rate for the aircraft has been 82% with no AOCP's reported to date. Col. Nole pointed out that this was indicative of the commendable support received from the Weapon System Support Center now established at WRAMA. As of 31 July the 4028th had received a total of 14 U-2 aircraft, which includes the original nine aircraft moved into Del Rio, the two lost on 28 June, and the three delivered by Lockheed during July.

In addition to four pilots trained at [REDACTED] previous to the move, ten crews have been trained at Laughlin and are now combat-ready. Seventeen more pilots currently are about 77% through the training program; they all have been checked-out in the aircraft and are flying long missions. It is the aim of the 4028th to have trained by 1 January 1958 a total of forty combat-ready crews.

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Col. Keeling raised the question of how long the 4028th should keep a pilot in the squadron flying the U-2 aircraft. There has been no specific limitation set on this time period as yet. Col. Nole stated that the decision is usually up to his flight surgeon and that this period varies from one pilot to another. It was again emphasized by Lt. Col. Herrington that because of the high degree of technique required, the U-2 aircraft should be flown by pilots of maximum proficiency, and that the aircraft was not designed to be flown by pilots with minimum experience.

c. Report by Contractor.

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[REDACTED] of Lockheed Aircraft distributed the progress report for the month of July, which was reviewed by Lt. Col. Brewer. As of 1 August the Contractor had delivered to FOG a total of fourteen aircraft (ships #361-375, less #367). Ship #363, which was involved in a crash and returned to Lockheed for repair, was delivered to Del Rio during July.

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Aircraft #376-382 are presently in flight test at Edwards AFB. Ship #376 has been testing Radar and ASN-6 and may be delivered during the week of 12 August. No. 377 is in flight test awaiting receipt of the Stanley downward ejection seat for installation in the equipment bay. This seat and its related hatch are expected to be in flight test about 15 August, at which time a downward ejection seat program will be initiated.

The "C" camera is still undergoing flight test work. Mechanical and electrical operation appears to be satisfactory, but the optical definition leaves much to be desired. System IV requires two more flights, one short and one high, to make it ready to go and should be operational shortly.

A seat pack modification presently is being prototyped by Lockheed which will make the common Air Force MC-3 pressure suit and personal equipment fittings compatible with both the RB-57D and U-2 aircraft. This work is being done in conjunction with the prototype installation of the T2V ejection seat.

d. Summary of support operation.

Mr. Bill Denard, Chief of the Weapons System Support Center, discussed his operation at WSSC, which serves as the prime supply depot for "Project Dragon Lady". The support center has been set up in a secure warehouse in which all depot functions in support of the project are performed. Access to the warehouse is limited only to certain designated WSSC supervisory personnel cleared for this project and those people who are assigned duty within the warehouse.

Requisitions are received by a sterile teletype line directly from Laughlin AFB. All material is processed to the final stage for shipment within the secure warehouse, including sterile method of packing. During the period from 15 June to 31 July, a total of 503 items were requisitioned by the 402dth, of which 429 were shipped, 56 placed on back order, and 18 cancelled.

Action is being taken in support of the sampler mission to establish a flyaway kit to support three aircraft. The FAK will be designated as FAK-I and FAK-III. The authorizations for FAK-I and FAK-III will be turned over to Base Supply at Laughlin Air Force Base to be built from existing stocks, utilizing principally the stocks from the old FAK-I. All shortages will be requisitioned by Base Supply from the WSSC. SLOE items to support these missions will be pre-assembled from available assets at Laughlin. Shortages will be requisitioned from the WSSC.

e. Summary of operating procedures for "Project Dragon Lady".

This matter was discussed by Hq USAF personnel present. Lt. Col. Newbern of USAF Operations informed the group of a message sent out prior

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to the meeting which outlined operating procedures to be followed in reporting accidents. Lt. Col. DeLonga, USAF Supply, reported that action had been taken to notify concerned organizations of the methods to be used in reporting the U-2 aircraft in certain aircraft inventory records.

II. OPEN ITEMS

The following specific agenda items were discussed and will require action as noted below each item.

a. Item 2-56-1. Operational Concept.

At the last Weapons Phasing Group Meeting held at Hq SAC on 3 April, it was reported that SAC Operations was preparing an operational concept based on the most recent Hq USAF operational concept and that this concept would be distributed in the very near future for use by Hq AMC as a basis for re-provisioning support with the various contractors. The need for the publication of such a plan was again emphasized by Lt. Col. Brewer, although re-provisioning has already been accomplished.

During this discussion Lt. Col. Williams, SAC (DOPLR), announced that sampling missions would be flown by two different detachments consisting of three aircraft each. This operation is scheduled to begin in October 1957 from Plattsburgh Air Force Base, New York and Ramey Air Force Base, Puerto Rico and will continue for one year, flying in the northern hemisphere only. In October 1958, a similar operation will be conducted in the southern hemisphere for one more year. Until such time as the SAC Operational Concept is published, the Project Office must be provided with specific information concerning key dates, equipment and quantities in order to guide procurement and assure that delivery schedules are maintained.

ACTION REQUIRED:

1. Hq SAC (DOPLR) to prepare the SAC Operational Concept and forward copies to Hq AMC for necessary support action.

b. Item 2-56-2. Rundown on Deliveries of Prime Equipments.

Mr. Denard presented to the Group the current status, which is summarized below, of prime equipments delivered to WRAMA and Del Rio in support of "Project Dragon Lady".

A-1 Camera	All 3 delivered; 2 at Del Rio, 1 at WRAMA.
A-2 Camera	3 at Del Rio, 1 at WRAMA, 2 at Hycon.
B Camera	1 delivered to WRAMA on 9 August.
C Camera	None delivered, 1 in flight test at Edwards.
Junction Box	All 30 delivered.
Tracking Camera	32 delivered, remaining 2 due in at WRAMA.
Hand Control, Mk. II	All 22 delivered (19 production plus 3 spare).
Drift Sight	26 delivered for production installation.

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Sextant	All 32 delivered.
Hand Control, Mk. III	All 12 delivered.
APQ-56 Radar Mapping System	All 4 systems delivered.
Radan, Model 220A	All 4 systems delivered.
Radan, Model 204A	3 systems delivered, last 3 due in August.
Radan, Model 201A	1 system procured, already delivered.
System I	11 systems delivered, remaining 14 in Sep-Oct.
System III	5 systems delivered, remaining 20 in Sep-Oct.

ACTION REQUIRED:

1. Maj. Andre requested the WSPO to furnish a listing of equipment classifications when not associated with the U-2 aircraft. This information will be forwarded to Hq SAC, DM2E.
- c. Item 2-56-6. Maintenance Concept.

The question was placed before the Group by Lt. Col. Brewer of the advisability of the 4028th SRS reverting to the standard SAC system of aircraft maintenance. Because of the peculiarities of the aircraft and its equipment, the quantity of maintenance data and handbooks available to the squadron, and the amount of support equipment provisioned, it has never been the intent of this program to go into a normal wing-base maintenance concept.

ACTION REQUIRED:

1. Col. Keeling requested SAC to brief him on the present aircraft maintenance system at Laughlin AFB in order to allow a determination to be made of the adequacy of the system. If some change in the present system of operation is believed to be necessary, he will present the problem for resolving action to the proper level within Hq USAF and Hq SAC.

d. Item 2-56-7. Support of Aircraft Engines.

Mr. Denard presented the current status of aircraft engine and spare parts deliveries. At the present time there are 24 J-57-P-37 engines in the project supply system with adequate quantities of spares available. In addition there are 16 J/YJ-57-P-31A engines now in the system, which will be supplemented by 24 more between now and January 1958. Due to the limited number of -37 engines in the system, -31 engines are being used in production aircraft and, in some instances, are being used in training by the 4028th. The available spares support for the -31 engines has been prorated and is stocked by the WRAAM support center. A supply directive outlining the procedure for shipping engines to and from the contractor has been drafted and is in the process of being published by Hq SAC.

Since the Weapons Phasing Group Meeting on 6 August 1957, the following changes in the inspection and overhaul requirements for the -37 and -31A engines have been received from Pratt & Whitney and forwarded by Lt. Col. Herrington to Hq USAF and Hq SAC:

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J-57-P-37	100 hrs. 200 hrs. 300 hrs.	Hot Section inspection Hot Section inspection Factory overhaul
IJ-57-P-31A (cast blades)	100 hrs. 200 hrs.	Hot section inspection Factory overhaul - (At the initial 200-hr. overhaul, the cast blades will be replaced with forged blades.)
J-57-P-31A (forged blades)	200 hrs. 400 hrs.	Hot section inspection Factory overhaul

e. Item 2-56-10. Training.

Representatives of Technical Training, Air Force at Gulfport, Mississippi, attended a meeting on 23 July 1957 at Laughlin AFB to discuss future training requirements with the 4080th SRW. This meeting was the result of a request initiated by Hq SAC, for future training of SAC personnel to be done by contractor-trained ATC instructors.

ACTION REQUIRED:

1. Maj. Andre will co-ordinate 4080th SRW instructor requirements with ATC and forward a list of names, security clearances, and training desired to the WSPO for action.
2. WSPO will contact the various contractors and establish training programs to be conducted by each one either at Laughlin AFB or at the plant to meet SAC-ATC requirements.

f. Item 3-56-1. Status of Development and Testing of Prime Equipments.

This item was covered by [REDACTED] during the discussion of the Lockheed monthly progress report (see page 3, section I, paragraph c).

SAC Operations personnel present were questioned by Lt. Col. Brewer on the need for four sets of System IV equipment for aircraft installation. Maj. Spindler stated that this was still a valid requirement even though the equipment will not be available until January at the earliest.

g. Item 6-56-4. Photo-processing Equipment.

In order to provide adequate facilities for the Eastman Photo-processing equipment which has been delivered to Laughlin, March and Westover Air Force Base, it was decided that SAC representatives should meet with Eastman personnel to discuss the possibility of Eastman making the installation of the equipment at the three locations.

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Lt. Col. Brewer impressed upon the group that it would be pointless to procure additional equipment without some assurance that SAC will have adequate facilities to house the equipment when it is delivered. At the request of Lt. Col. Condon, the contractual go-ahead for additional processing equipment has been withheld by the WSPO. SAC is presently revising their requirements for processing and exploitation equipment necessary to meet the EWP and will forward this new list to the WSPO for procurement action.

ACTION REQUIRED:

1. SAC is to meet with Eastman representatives to discuss installation of photo-processing equipment.
 2. Lt. Col. Condon is to expedite revision of additional equipment requirements and forward to WSPO for procurement action.
- h. Item 4-57-1. Follow-on Support of Common Items.

Items common to this project and to standard Air Force equipment can and should be obtained through normal Air Force supply channels. The WRAMA support center is in the process of identifying all possible material and equipment as standard Air Force items and is taking action to obtain these items through normal channels. No catalog action is being taken as it is not considered feasible to do so either now or in the future.

The fact that an item is or is not a standard stock-listed Air Force item is the prime factor in determining which source and channel should be used in obtaining or procuring the material. Items which are not stock-listed as standard Air Force equipment will continue to be purchased through the present sources of supply, and stock-listed standard Air Force items will be obtained by the WSSC through normal channels.

SAC has been informed by the WSPO that the present supply channels for photo-processing chemicals and film (except "C" camera and APQ-56 film) will be closed after 31 December 1957. Action was initiated by the WSPO to obtain Air Force stock listings on certain special types of film used in this project. In order to facilitate requisitioning of chemicals, SAC has requested the WSPO to obtain stock listings for these items also.

ACTION REQUIRED:

1. The WSSC will continue to research support items used in this project and to determine which ones are standard Air Force items.
2. SAC is to take immediate action to establish film and chemical requirements after 1 January 1958 with Rome Air Force Depot.

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3. The WSPO is to initiate action with WADC and Rome AFD to obtain stock listings for special packaged photo-processing chemicals.
4. SAC is to set up procedure with its using organizations and WRAMA for recovering empty film spools and returning them to be rewound with film.
1. Item 4-57-2. Procurement of Three Weather Packages and Additional

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Procurement action has been initiated by the WSPO for three additional weather packages, similar to the one furnished previously with the first ARDC article, and four Radan sets, type PC-211, one of which will be a spare. Delivery of the Radan equipment is promised by November 1957. Additional equipment required for the weather packages will be government-furnished. Engineering assistance for this installation will be provided by Lt. Col. Herrington and Mr. W. A. Maxim of the WADC Aerial Reconnaissance Laboratory.

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No further action required; this item is closed.

- j. Item 4-57-3. Status of Listings of Air Force Technical Orders,

Lockheed was given the responsibility of finding current Technical Orders which apply to common items of equipment installed in the aircraft and including this listing in the aircraft Erection and Maintenance Manual. To date, Lockheed has prepared a listing for the manual of all equipments, vendors, and applicable T.O.'s. [REDACTED] LAC, reported that this listing is now being revised and that the various vendors have all been contacted for additional T.O.'s and assembly drawing information.

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ACTION REQUIRED:

1. If Lockheed is unsuccessful in obtaining this data, Mr. Denard and Mr. McDonald will contact the vendors and request that it be furnished.

2. Further action on this item will be reported at the next meeting.

- k. Item 4-57-4. Interchangeability of Equipments.

This item was placed on the agenda at the previous meeting on 3 April 1957. At that time it was determined that SAC would evaluate the desirability of having provisions for special equipments in additional aircraft and would notify the WSPO accordingly. No further action has been taken by SAC on this matter. Lt. Col. Brewer again requested SAC Operations personnel to screen their requirements for interchanging equipments among various aircraft. SAC is to study the requirement for equipment interchangeability and to submit an evaluation to the WSPO.

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III. ADDITIONAL ITEMS.

a. Item 8-57-1. Installation of Position Lights.

Authorization has been issued to Lockheed to proceed with this modification which will consist of the installation of rotating anti-collision (position) lights on both top and bottom of the aircraft. The lights are being provided in kits and will be available in late August. They are designed to be readily detachable and will be used on the aircraft only during training missions.

No further action required; this item is closed.

b. Item 8-57-2. Installation of a Voice Recorder.

Provisions for recording voice on the System I recorder have been incorporated in production and are ready on several articles. However, voice filters to complete the voice systems are not yet available but are promised for delivery in mid-September, at which time complete kits can be sent out for those aircraft already delivered.

No further action required; this item is closed.

c. Item 8-57-3. Installation of ARC-3 VHF Radio in [REDACTED]

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[REDACTED]

NO further action required; this item is closed.

d. Item 8-57-4. Installation of Ejection Seat.

An informal mock-up conference was held at Lockheed, Bakersfield on 24 July 1957 to determine what type of ejection seat system would be desirable for the U-2. The following ejection seat provisions are to be made for the U-2 using a T2V aircraft production seat. These provisions will be such that this seat can be readily removed and replaced with the present U-2 lightweight seat. The following features will be included on the T2V ejection seat to make it usable with the U-2:

1. Provide the foot stirrups presently installed on the T2V seat.
2. A head guard mounted on the top of the seat will be provided to break open the canopy in cases where it has not been manually jettisoned prior to seat ejection.
3. The control wheel will be snatched forward as the seat begins its upward travel in order to provide better clearance for the pilot's knees.
4. The ejection sequence will be manual and will be initiated with a handle between the pilot's legs.

A parallel program to the ejection seat program will be accomplished on the seat packs. The seat pack modifications [REDACTED]

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1. Use of a new seat pan (F-104 type) so that the pack will fit the T2V ejection seat without seat modification. The U-2 oxygen equipment will fit in the F-104 seat pan in the same manner as it presently does in the U-2 pan.
2. By providing both right and left outlet holes for the oxygen hose in the seat pan and a new separate longer chest bladder hose, this seat pack can be made so that it will work with pressure suits with either right or left side connections with the chest bladders.
3. Provisions will be made on the seat pack so that manual or automatic actuation of the Green Apple can be accomplished upon ejection of the seat.
4. All hose into the seat pan are to be clipped solidly to the pan.

The above seat ejection items are to be incorporated as soon as possible into a prototype installation in a flight test article. There will be several ground fires to check the system operation and a method of breaking open the canopy. After these tests, approximately twenty ejection seat units will be built for use in the U-2 during training and other non-critical operations.

e. Item 8-57-5. Review of Provisioning Meeting.

Mr. Denard reported on the SLOE conference held at Laughlin AFB on 22 July 1957, which was attended by personnel from Hq AMC, Hq SAC, WRAMA and 4080th SRW. The purpose of the meeting was to establish authorizations to support prime equipment operating from four (home plus three) locations. It also was necessary to take action to break down equipment to various organizational functions, such as field maintenance, flight line, etc., to be compatible with the type of maintenance organizations in effect.

Initially, the squadron SLOE was established to support a single point operation in certain equipment areas. Therefore, the original quantities of peculiar equipment purchased were insufficient to support the projected four locations. For the same reasons, the standard Air Force equipment was insufficient. Procurement adjustments are being made to obtain additional required peculiar equipment. Standard Air Force items are being requisitioned from the appropriate Air Force depot.

The present SLOE now consists of 269 CFE and 223 USAF line items, plus two ECL's for tools and household items. A further study of SLOE requirements will be made within sixty days by Laughlin AFB, WRAMA and Hq SAC.

f. Item 8-57-6. Procedures for Acceptance and Pick-up of Production Aircraft.

Procedures now in effect for accepting production aircraft and flying them away from Edwards AFB have worked satisfactorily to date. However, Edwards has again emphasized that no aircraft will be allowed to land there unless a clearance request has been filed not later than twenty-four hours prior to arrival time.

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No further action required; this item is closed.

g. Item 8-57-7. Requirement for SAC Technical Representatives in Fiscal Year 1959.

Technical representatives of the various contractors are being provided to this project under the present supply contracts until 1 July 1958 (fiscal year 1959). After that date, SAC will have to obtain tech reps for "Project Dragon Lady" through normal Air Force procedures.

ACTION REQUIRED:

1. Maj. Andre will take immediate action within Hq SAC to determine requirements for project tech reps from 1 July 1958 through 30 June 1959.
2. Requirements will be submitted to Lt. Col. Brewer for evaluation and then forwarded to Hq USAF (Col. Keeling) for appropriate funding action. Because of the security classification of the program and certain peculiar types of equipment, close co-ordination among SAC, AMC and Hq USAF will be necessary in this area to insure adequate tech rep support in the future.

h. Item 8-57-8. Procurement, Support and Budgetary Action for Fiscal Year 1959.

It is the intention at this time that the present method of funding and contracting for "Project Dragon Lady" will continue only through June 1958, at which time certain support functions will have to be carried on by Hq AMC, WRAMA and SAC. Prior to the next Weapons Phasing Group Meeting, a firm plan should be determined which will answer the following questions:

1. What functions can fall under normal SAC and/or depot responsibilities by 1 July 1958?
2. What functions can be, or should be, delegated to SAC and/or WRAMA together with authority to deviate from the SOP, if necessary?
3. What functions will remain with the Weapons System Project Office at Hq AMC?

Due to the minimum time left for FY 59 budgeting, it is imperative that immediate action be taken to resolve this matter. Those persons concerned are:

Maj. Gen. Anderson	WRAMA
Brig. Gen. Ryan	Hq SAC, D/Mat
Col. Keeling	Hq USAF
Lt. Col. Brewer	Hq AMC

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The above items comprise a summary of the items which were discussed at the "Project Dragon Lady" weapons phasing group meeting. A date for the next phasing meeting was not established. Representatives will be notified and furnished copies of an agenda at the time the date is determined.

Written by:

Bruce M. Hall

BRUCE M. HALL
1st Lt., USAF
Hq AMC (WSPO)

Approved by:

S. W. Brewer
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